

IV. AMENDMENTS TO THE CLAIMS

1. (ORIGINAL) A display apparatus for displaying images based on signals received from a host, comprising:

determining means for determining an appropriate one of a plurality of interface types to connect the display apparatus and said host;

a plurality of storage means each storing specification information relating to the display for each one of the interface types to be connected; and

output means for switching between or among the plurality of storage means based upon the determination by the determining means and for outputting, from said storage means to said host, the specification information corresponding to the appropriate one of the interface types determined by said determining means.

2. (ORIGINAL) A display apparatus as defined in claim 1, wherein said determining means is arranged to determine the interface type based on a voltage value of a particular DC power line among signal lines from said host.

3. (ORIGINAL) A display apparatus as defined in claim 2, wherein said output means comprises a multiplexer for selectively switching the connection to one of said plurality of storage means in response to said voltage value of said DC power line.

4. (ORIGINAL) A display apparatus as defined in claim 1, wherein said determining means is arranged to discriminate between the DVI-I (Digital Visual Interface Integrated) interface and the VGA (Video Graphics Adapter) interface.

5. (ORIGINAL) A display apparatus as defined in claim 1, wherein said plurality of storage means comprise two storage means, one for the DVI-I interface, and the other for the VGA interface, said storage means for the DVI-I interface being powered by said host only when the interface type is the DVI-I interface.

6. (CURRENTLY AMENDED) A display apparatus ~~as defined in claim 5, further comprising~~ for displaying images based on signals received from a host, comprising:

determining means for determining an appropriate one of a plurality of interface types to connect the display apparatus and said host;

a plurality of storage means each storing specification information relating to the display for each one of the interface types to be connected, said plurality of storage means including two storage means, one for the DVI-I interface, and the other for the VGA interface, said storage means for the DVI-I interface being powered by said host only when the interface type is the DVI-I interface;

output means for switching between or among the plurality of storage means based upon the determination by the determining means and for outputting, from said storage means to said host, the specification information corresponding to the appropriate one of the interface types determined by said determining means;
and

a peak hold circuit for generating a DC voltage based on synchronizing signals received from said host, said DC voltage generated by said peak hold circuit being supplied only to said storage means for the VGA interface and to said multiplexer.

7. (ORIGINAL) A display apparatus as defined in claim 6, further comprising a backflow preventing diode disposed between said peak hold circuit and said storage means for the DVI-I interface for blocking a DC current flowing from said peak hold circuit.

8. (ORIGINAL) A display apparatus as defined in claim 4, wherein said display apparatus is connected to said host through a VGA to DVI-I conversion cable having, at its DVI-I end, a 5V line for DDC (Display Data Channel) which is opened or grounded.

9. (ORIGINAL) A display apparatus as defined in claim 1, wherein said specification information is EDID (Extended Display Identification Data) necessary for the Plug-and-Play function.

10. (ORIGINAL) A display apparatus as defined in claim 2, wherein said specification information is EDID necessary for the plug-and-play function.

11. (PREVIOUSLY PRESENTED) A selector apparatus for use with a computer including a graphics card having either a DVI-I connector or a VGA connector and a display device having a DVI-I connector, the graphics card and the display device interconnected to each other by a cable, the graphics card having a graphics card power source to provide a graphics card voltage and the display device having a display device power source only with the DVI-I connector to provide a display device voltage in the ON state and to provide zero voltage or approximately zero voltage in an OFF state, the selector apparatus comprising:

a first storage memory for storing specification information for a VGA interface;

a second storage memory for storing specification information for a DVI-I interface; and

a multiplexer operably connected to the first and second storage memories and the graphics card and having a selector terminal for determining whether the graphics card voltage is present or absent such that when the graphics card voltage is determined to be present, the multiplexer outputs DVI-I specification information to the graphics card in order for the display device to properly display images in accordance with the specification information for the DVI-I interface and when the graphics card voltage is determined to be absent, the multiplexer outputs the specification information for the VGA interface to the graphics card in order for the display device to properly display images in accordance with the VGA specification.

12. (PREVIOUSLY PRESENTED) A selector apparatus according to claim 11, wherein when the graphics card voltage is determined to be absent, power is supplied to activate the first storage memory and the multiplexer regardless if the display device is in the ON state or the OFF state.

13. (PREVIOUSLY PRESENTED) A selector apparatus according to claim 12, wherein power is supplied to activate the first storage memory and the multiplexer from the display device power source when the display device power source is in the ON state.

14. (PREVIOUSLY PRESENTED) A selector apparatus according to claim 12, further comprising a peak hold circuit operably connected the display device power source, the multiplexer and the first storage memory such that when the display device power source is in the OFF state, the peak hold circuit provides power to the first storage memory and the multiplexer so that the specification information for the VGA interface can be output to the graphics card.

15. (PREVIOUSLY PRESENTED) A display apparatus for displaying images based on voltage signals received from a host, comprising:

determining means for determining an appropriate one of a plurality of interface types to connect the display apparatus and said host;

a plurality of storage means each storing specification information relating to the display for each one of the interface types to be connected; and

output means for switching between or among the plurality of storage means based upon the determination by the determining means and for outputting, from said storage means to said host, the specification information corresponding to the appropriate one of the interface types determined by said determining means;

a peak hold circuit; and

a backflow preventing diode, wherein:

said determining means is arranged to discriminate between the DVI-I (Digital Visual Interface Integrated) interface and the VGA (Video Graphics Adapter) interface,

said plurality of storage means comprise two storage means, one for the DVI-I interface, and the other for the VGA interface, said storage means for the DVI-I interface being powered by said host only when the interface type is the DVI-I interface;

said peak hold circuit generates a DC voltage based on synchronizing signals received from said host, said DC voltage generated by said peak hold circuit being supplied only to said storage means for the VGA interface and to said multiplexer,

said backflow preventing diode is disposed between said peak hold circuit and said storage means for the DVI-I interface for blocking a DC current flowing from said peak hold circuit,

said display apparatus is connected to said host through a VGA to

DVI-I conversion cable having, at its DVI-I end, a 5V line for DDC (Display Data Channel) which is opened or grounded, and

said specification information is EDID (Extended Display Identification Data) necessary for the Plug-and-Play function.

16: (CURRENTLY AMENDED) A display apparatus for displaying images based on signals received from a host, comprising:

determining means for determining an appropriate one of a plurality of interface types to connect the display apparatus and said host;

a plurality of storage means each storing specification information relating to the display for each one of the interface types to be connected;

a peak hold circuit; and

output means including a multiplexer for switching between or among the plurality of storage means based upon the determination by the determining means and for outputting, from said storage means to said host, the specification information corresponding to the appropriate one of the interface types determined by said determining means,

wherein said determining means is arranged to discriminate between the DVI-I (Digital Visual Interface Integrated) interface and the VGA (Video Graphics Adapter) interface,

wherein said plurality of storage means comprise two storage means, one for the DVI-I interface, and the other for the VGA interface, said storage means for the DVI-I interface being powered by said host only when the interface type is the DVI-I interface,

wherein the peak hold circuit generates a DC voltage based on synchronizing signals received from said host, said DC voltage generated by said peak hold circuit being supplied only to said storage means for the VGA interface and to said multiplexer; and

wherein said specification information is EDID (Extended Display Identification Data) necessary for the Plug-and-Play function.